

**CALCULATION OF SENSOR ARRAY INDUCED PHASE ANGLE INDEPENDENT  
FROM DEMODULATION PHASE OFFSET OF PHASE GENERATED CARRIER**

**ABSTRACT**

A sensor array employs a parameter to induce a time-varying phase angle  $\phi$  on an  
5 optical signal that comprises a phase generated carrier with a demodulation phase offset  $\beta$ .  
The phase angle  $\phi$  is calculated independently of the demodulation phase offset  $\beta$ .